

## SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.

TANG, Y. Tom  
CORLEY, Neil C.  
GUEGLER, Karl J.  
GORCONE, Gina A.  
AZIMZAI, Yalda  
KASER, Matthew R.  
YUE, Henry

<120> COENZYME A-UTILIZING ENZYMES

<130> PF-0622 PCT

<140> To Be Assigned

<141> Herewith

<150> 09/185,217; unassigned

<151> 1998-11-03; 1998-11-03

<160> 10

<170> PERL Program

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<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1580751CD1

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										20		25		30
Pro	Cys	Gln	Arg	Asp	Gln	Asp	Gly	Tyr	Tyr	Trp	Ile	Thr	Gly	Arg
										35		40		45
Ile	Asp	Asp	Met	Leu	Asn	Val	Ser	Gly	Glu	Gly	Gln	Gly	Pro	Pro
										50		55		60
Ser	His	Leu	Ile	Asn	Ser	Ala	Pro	Leu	Thr	Thr	Pro	Ser	Arg	Ser
										65		70		75
Leu	Pro	Gln	Glu	Pro	Arg	Ser	Val	Leu	Trp	Pro	Asp	His	Val	Leu
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Ser	Val	Ala	Phe	Ser	Ser	Gly	Pro	Arg	Phe					
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<210> 2

<211> 159

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PCT/US99/25820

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1627889CD1

&lt;400&gt; 2

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Val	Ser	Arg	Phe	Leu	His	Leu	Gln	Ser	Pro	Phe	Leu	Thr	Gln	Val
					20				25				30	
His	Ser	Glu	Gln	Trp	Gln	Leu	Ser	Thr	Ser	Gln	Ile	Pro	Val	Gln
					35				40				45	
Gln	Met	His	Leu	Phe	Asp	Val	His	Asn	Tyr	Pro	Asp	Tyr	Val	Ser
					50				55				60	
Ser	Gly	Gly	Gly	Phe	Gly	Pro	Ala	Asp	Asp	His	Gly	Tyr	Gly	Val
					65				70				75	
Ser	Tyr	Ile	Phe	Met	Gly	Asp	Gly	Met	Ile	Thr	Phe	His	Ile	Ser
					80				85				90	
Ser	Lys	Lys	Ser	Ser	Thr	Lys	Thr	Asp	Ser	His	Arg	Leu	Gly	Gln
					95				100				105	
His	Ile	Glu	Asp	Ala	Leu	Leu	Asp	Val	Ala	Ser	Leu	Phe	Gln	Ala
					110				115				120	
Gly	Gln	His	Phe	Lys	Arg	Arg	Phe	Arg	Gly	Ser	Gly	Lys	Glu	Asn
					125				130				135	
Ser	Arg	His	Arg	Cys	Gly	Phe	Leu	Ser	Arg	Gln	Thr	Gly	Ala	Ser
					140				145				150	
Lys	Ala	Ser	Met	Thr	Ser	Thr	Asp	Phe						
					155									

&lt;210&gt; 3

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1965888CD1

&lt;400&gt; 3

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Ser	Glu	Leu	Leu	Glu	Thr	Leu	Ala	Gln	Leu	Arg	Glu	Asp	Arg	Gln	
					20				25				30		
Val	Arg	Val	Leu	Leu	Phe	Arg	Ser	Gly	Val	Lys	Gly	Val	Phe	Cys	
					35				40				45		
Ala	Gly	Ala	Asp	Leu	Lys	Glu	Arg	Glu	Gln	Met	Ser	Glu	Ala	Glu	
					50				55				60		
Val	Gly	Val	Phe	Val	Gln	Arg	Leu	Arg	Gly	Leu	Met	Asn	Asp	Ile	
					65				70				75		
Ala	Ser	Ser	Ala	Val	Met	Gly	Leu	Ile	Glu	Thr	Thr	Arg	Gly	Leu	
					80				85				90		
Leu	Pro	Gly	Ala	Gly	Gly	Thr	Gln	Arg	Leu	Pro	Arg	Cys	Leu	Gly	

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95	100	105
Val Ala Leu Ala Lys Glu Leu Ile Phe	Thr Gly Arg Arg Leu	Ser
110	115	120
Gly Thr Glu Ala His Val Leu Gly Leu	Val Asn His Ala Val	Ala
125	130	135
Gln Asn Glu Glu Gly Asp Ala Ala Tyr	Gln Arg Ala Arg Ala	Leu
140	145	150
Ala Gln Glu Ile Leu Pro Gln Ala Pro	Ile Ala Val Arg Leu	Gly
155	160	165
Lys Val Ala Ile Asp Arg Gly Thr Glu	Val Asp Ile Ala Ser	Gly
170	175	180
Met Ala Ile Glu Gly Met Cys Tyr Ala	Gln Asn Ile Pro Thr	Arg
185	190	195
Asp Arg Leu Glu Gly Met Ala Ala Phe	Arg Glu Lys Arg Thr	Pro
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Lys Phe Val Gly Lys		
215		

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<212> PRT  
<213> Homo sapiens

<220>  
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20	25		30
Ser Leu Tyr Thr Ile Leu Thr Tyr Ile	Pro Phe Tyr Phe Phe Ser		
35	40		45
Glu Ser Arg Gln Glu Lys Ser Asn Arg	Ile Lys Ala Lys Pro Val		
50	55		60
Asn Ser Lys Pro Asp Ser Ala Tyr Arg	Ser Val Asn Ser Leu Asp		
65	70		75
Gly Leu Ala Ser Val Leu Tyr Pro Gly	Cys Asp Thr Leu Asp Lys		
80	85		90
Val Phe Thr Tyr Ala Lys Asn Lys Phe	Lys Asn Lys Arg Leu Leu		
95	100		105
Gly Thr Arg Glu Val Leu Asn Glu Glu	Asp Glu Val Gln Pro Asn		
110	115		120
Gly Lys Ile Phe Lys Lys Val Ile Leu	Gly Gln Tyr Asn Trp Leu		
125	130		135
Ser Tyr Glu Asp Val Phe Val Arg Ala	Phe Asn Phe Gly Asn Gly		
140	145		150
Leu Gln Met Leu Gly Gln Lys Pro Lys	Thr Asn Ile Ala Ile Phe		
155	160		165
Cys Glu Thr Arg Ala Glu Trp Met Ile	Ala Ala Gln Ala Cys Phe		
170	175		180
Met Tyr Asn Phe Gln Leu Val Thr Leu	Tyr Ala Thr Leu Gly Gly		
185	190		195

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Pro Ala Ile Val His Ala Leu Asn Glu Thr Glu Val Thr Asn Ile  
 200 205 210  
 Ile Thr Ser Lys Glu Leu Leu Gln Thr Lys Leu Lys Asp Ile Val  
 215 220 225  
 Ser Leu Val Pro Arg Leu Arg His Ile Ile Thr Val Asp Gly Lys  
 230 235 240  
 Pro Pro Thr Trp Ser Glu Phe Pro Lys Gly Ile Ile Val His Thr  
 245 250 255  
 Met Ala Ala Val Glu Ala Leu Gly Ala Lys Ala Ser Met Glu Asn  
 260 265 270  
 Gln Pro His Ser Lys Pro Leu Pro Ser Asp Ile Ala Val Ile Met  
 275 280 285  
 Tyr Thr Ser Gly Ser Thr Gly Leu Pro Lys Gly Val Met Ile Ser  
 290 295 300  
 His Ser Asn Ile Ile Ala Gly Ile Thr Gly Met Ala Glu Arg Ile  
 305 310 315  
 Pro Glu Leu Gly Glu Glu Asp Val Tyr Ile Gly Tyr Leu Pro Leu  
 320 325 330  
 Ala His Val Leu Glu Leu Ser Ala Glu Leu Val Cys Leu Ser His  
 335 340 345  
 Gly Cys Arg Ile Gly Tyr Ser Ser Pro Gln Thr Leu Ala Asp Gln  
 350 355 360  
 Ser Ser Lys Ile Lys Lys Gly Ser Lys Gly Asp Thr Ser Met Leu  
 365 370 375  
 Lys Pro Thr Leu Met Ala Ala Val Pro Glu Ile Met Asp Arg Ile  
 380 385 390  
 Tyr Lys Asn Val Met Asn Lys Val Ser Glu Met Ser Ser Phe Gln  
 395 400 405  
 Arg Asn Leu Phe Ile Leu Ala Tyr Asn Tyr Lys Met Glu Gln Ile  
 410 415 420  
 Ser Lys Gly Arg Asn Thr Pro Leu Cys Asp Ser Phe Val Phe Arg  
 425 430 435  
 Lys Val Arg Ser Leu Leu Gly Gly Asn Ile Arg Leu Leu Leu Cys  
 440 445 450  
 Gly Gly Ala Pro Leu Ser Ala Thr Thr Gln Arg Phe Met Asn Ile  
 455 460 465  
 Cys Phe Cys Cys Pro Val Gly Gln Gly Tyr Gly Leu Thr Glu Ser  
 470 475 480  
 Ala Gly Ala Gly Thr Ile Ser Glu Val Trp Asp Tyr Asn Thr Gly  
 485 490 495  
 Arg Val Gly Ala Pro Leu Val Cys Cys Glu Ile Lys Leu Lys Asn  
 500 505 510  
 Trp Glu Glu Gly Gly Tyr Phe Asn Thr Asp Lys Pro His Pro Arg  
 515 520 525  
 Gly Glu Ile Leu Ile Gly Gly Gln Ser Val Thr Met Gly Tyr Tyr  
 530 535 540  
 Lys Asn Glu Ala Lys Thr Lys Ala Asp Phe Phe Glu Asp Glu Asn  
 545 550 555  
 Gly Gln Arg Trp Leu Cys Thr Gly Asp Ile Gly Glu Phe Glu Pro  
 560 565 570  
 Asp Gly Cys Leu Lys Ile Ile Asp Arg Lys Lys Asp Leu Val Lys  
 575 580 585  
 Leu Gln Ala Gly Glu Tyr Val Ser Leu Gly Lys Val Glu Ala Ala  
 590 595 600  
 Leu Lys Asn Leu Pro Leu Val Asp Asn Ile Cys Ala Tyr Ala Asn

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605	610	615
Ser Tyr His Ser Tyr Val Ile Gly Phe	Val Val Pro Asn Gln	Lys
620	625	630
Glu Leu Thr Glu Leu Ala Arg Lys Lys	Gly Leu Lys Gly Thr	Trp
635	640	645
Glu Glu Leu Cys Asn Ser Cys Glu Met	Glu Asn Glu Leu	Leu Lys
650	655	660
Val Leu Ser Glu Ala Ala Ile Ser Ala	Ser Leu Glu Lys	Phe Glu
665	670	675
Ile Leu Val Lys Ile Arg Leu Ser Pro	Glu Pro Trp Thr	Pro Glu
680	685	690
Thr Gly Leu Val Thr Asp Ala Phe Lys	Leu Lys Arg Lys	Glu Leu
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Lys Thr His Tyr Gln Ala Asp Ile Glu	Arg Met Tyr Gly Arg	Lys
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<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
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35	40	45	
Tyr Met Lys Ser Leu Leu Lys Ile Phe	Ala Trp Ala Thr Leu	Arg	
50	55	60	
Met Glu Arg Gly Ala Lys Glu Lys Asn	His Gln Leu Tyr Lys	Pro	
65	70	75	
Tyr Thr Asn Gly Ile Ile Ala Lys Asp	Pro Thr Ser Leu Glu	Glu	
80	85	90	
Glu Ile Lys Glu Ile Arg Arg Ser Gly	Ser Ser Lys Ala Leu	Asp	
95	100	105	
Asn Thr Pro Glu Phe Glu Leu Ser Asp	Ile Phe Tyr Phe Cys	Arg	
110	115	120	
Lys Gly Met Glu Thr Ile Met Asp Asp	Glu Val Thr Lys Arg	Phe	
125	130	135	
Ser Ala Glu Glu Leu Glu Ser Trp Asn	Leu Leu Ser Arg Thr	Asn	
140	145	150	
Tyr Asn Phe Gln Tyr Ile Ser Leu Arg	Leu Thr Val Leu Trp	Gly	
155	160	165	
Leu Gly Val Leu Ile Arg Tyr Cys Phe	Leu Leu Pro Leu Arg	Ile	
170	175	180	
Ala Leu Ala Phe Thr Gly Ile Ser Leu	Leu Val Val Gly Thr	Thr	
185	190	195	
Val Val Gly Tyr Leu Pro Asn Gly Arg	Phe Lys Glu Phe Met	Ser	
200	205	210	

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PCT/US99/25820

Lys	His	Val	His	Leu	Met	Cys	Tyr	Arg	Ile	Cys	Val	Arg	Ala	Leu
				215					220					225
Thr	Ala	Ile	Ile	Thr	Tyr	His	Asp	Arg	Glu	Asn	Arg	Pro	Arg	Asn
				230					235					240
Gly	Gly	Ile	Cys	Val	Ala	Asn	His	Thr	Ser	Pro	Ile	Asp	Val	Ile
				245					250					255
Ile	Leu	Ala	Ser	Asp	Gly	Tyr	Tyr	Ala	Met	Val	Gly	Gln	Val	His
				260					265					270
Gly	Gly	Leu	Met	Gly	Val	Ile	Gln	Arg	Ala	Met	Val	Lys	Ala	Cys
				275					280					285
Pro	His	Val	Trp	Phe	Glu	Arg	Ser	Glu	Val	Lys	Asp	Arg	His	Leu
				290					295					300
Val	Ala	Lys	Arg	Leu	Thr	Glu	His	Val	Gln	Asp	Lys	Ser	Lys	Leu
				305					310					315
Pro	Ile	Leu	Ile	Phe	Pro	Glu	Gly	Thr	Cys	Ile	Asn	Asn	Thr	Ser
				320					325					330
Val	Met	Met	Phe	Lys	Lys	Gly	Ser	Phe	Glu	Ile	Gly	Ala	Thr	Val
				335					340					345
Tyr	Pro	Val	Ala	Ile	Lys	Tyr	Asp	Pro	Gln	Phe	Gly	Asp	Ala	Phe
				350					355					360
Trp	Asn	Ser	Ser	Lys	Tyr	Gly	Met	Val	Thr	Tyr	Leu	Leu	Arg	Met
				365					370					375
Met	Thr	Ser	Trp	Ala	Ile	Val	Cys	Ser	Val	Trp	Tyr	Leu	Pro	Pro
				380					385					390
Met	Thr	Arg	Glu	Ala	Asp	Glu	Asp	Ala	Val	Gln	Phe	Ala	Asn	Arg
				395					400					405
Val	Lys	Ser	Ala	Ile	Ala	Arg	Gln	Gly	Gly	Leu	Val	Asp	Leu	Leu
				410					415					420
Trp	Asp	Gly	Gly	Leu	Lys	Arg	Glu	Lys	Val	Lys	Asp	Thr	Phe	Lys
				425					430					435
Glu	Glu	Gln	Gln	Lys	Leu	Tyr	Ser	Lys	Met	Ile	Val	Gly	Asn	His
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Lys	Asp	Arg	Ser	Arg	Ser									
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<212> DNA  
<213> Homo sapiens

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<221> unsure  
<222> 63  
<223> a or g or c or t, unknown, or other

<220>  
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cgaggtcagc cgctccgcgc acgtccccctc gctgcagcgc taccgcgagc tgcacccggcg 180  
ctccgtggag gagccgcggg aattctgggg agacattgcc aaggaatttt actggaagac 240

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tccatgccct ggccattcc ttcggtacaa ctttgatgtg actaaaggga aaatcttcat 300  
 tgagtggatg aaaggagcaa ctaccaacat ctgctacaat gtactggatc gaaatgtcca 360  
 tgagaaaaag cttggagata aagttgctt ttactggct tgccagcggg accaggatgg 420  
 ctattactgg atcaactggca ggattgtatg catgctcaat gtatctggtg agggccaggg 480  
 gccaccttcc catcttatta actctgctcc tctgacaaca cccagccgaa gcctccgca 540  
 agagcccagg agtgccttt ggccagacca tgtactaagt gtagcattca gttctggcc 600  
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 <213> Homo sapiens

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 gtgctcagac taaagcttt ctttatacgg gggatcatgt tggtaaaaat ccattgaatt 180  
 atatacgttag gatTTTgaa cttatttcta taaagttta tatttcaata aaaagcttaa 240  
 agatataatat atattttttt ccatacatga caagtattgt atcatatata ctatTTTga 300  
 acttattcct ataaaatgtt atattcaat aaaaactgac agatatatta cattatTTTc 360  
 catccatgac aagtattatt atatcataca tgctatTTT ttttttttt ttttttttga 420  
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PCT/US99/25820

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1965888CB1

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 ccccagcccg cagcccgagga tttaggcagag ccagctgtt tcccggtgt gcctgactc 360  
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 cgggaaacaga tgagtgaagc agaggtgggg gtgtttgtcc agcgactccg gggcctgatg 600  
 aatgacatcg cttcctcgcc agtcatggga ctgattgaga ccacgcgagg gctcctcccg 660  
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 gctgtggccc agaaccggaga gggggacgccc gcctaccaggc gggcacgagc actggcccag 840  
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 acggaggtgg acattgcata tgggatggcc attgaaggga tgcgtatgc ccagaatatt 960  
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&lt;210&gt; 9

&lt;211&gt; 4027

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2816341CB1

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 ctatgtatc cttaccattgtt caactgatatac agaattcggtt gttggaaagg actggggaaa 300  
 cagctgttaac atttgccacc ctcagaagct gctggcctgt tgcacacca ctttagcctc 360  
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 accacgtgtc ttcaaaacca tctaccatga agctaaaaca taccatcaac cttattctt 480  
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 tttctccga gtcaagacaa gaaaaatcaa accgaattaa agcaaaggct gtaaattcaa 600  
 aacctgattc tgcatacaga tctgttaata gttggatgg tttggcttca gtattataacc 660

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WO 00/26350

PCT/US99/25820

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 <222> 1597, 1650, 1656, 1713, 1719, 1754, 1778, 1791, 1794, 1796,  
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 <223> a or g or c or t, unknown, or other

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